

ABSTRACT OF THE DISCLOSURE

An optical system for a projector and a projection method. An optical system for a projector consistent with the present invention comprises a light source; a projection lens for externally projecting light incident from the light source; an image-forming panel disposed between the light source and the projection lens for modulating the light incident at a certain incident angle from the light source, forming an image, and reflecting the formed image onto the projection lens; and a light integrator disposed between the light source and the image-forming panel, wherein the light integrator transforms a cross-sectional face of the light, incident from the light source and radiated onto the image-forming panel at a certain incident angle, into a shape corresponding to the image-forming panel plane so that the cross-sectional face of the light has the same margin width around edges of the image-forming panel plane.

Accordingly, an optical system consistent with the present invention can radiate a uniform amount of light onto the image-forming panel and maximize the radiation efficiency of a light source.